

ABSTRACT

An apparatus (10) for connecting and sealing duct sections is adapted for connecting and sealing round ducts (100), round oval ducts (200), and other commonly used ducts. The apparatus includes first and second connectors. Each connector includes a tubular member (20) having an outside diameter that is incrementally smaller than the inside diameter of the duct to which it is attached. An O-ring (40) carried in an O-ring channel defined in the tubular member makes an air-tight seal with the duct. A radially directed annular flange (50) extends outwardly from an outer end of the tubular member. An outer perimeter of the flange forms a rolled edge (60). A gasket (70) may be carried between the outer surfaces of adjacent flanges of first and second connectors associated with first and second ducts to be joined. Duct sealer (80) may also be carried between the outer surfaces, with or without a gasket. A plurality of fasteners (90) may be used to fasten the flanges together. An excess duct sealer containment trough (65) is defined between the first and second connectors, and receives excess duct sealer when the fasteners are tightened, thereby preventing the fouling of the perimeter of the radially directed annular flange.

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